(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 6 November 2003 (06.11.2003)

(10) International Publication Number WO 03/090691 A2

(51) International Patent Classification7:

A61K

(21) International Application Number: PCT/US03/12943

25 April 2003 (25.04.2003) (22) International Filing Date:

(25) Filing Language:

English

(26) Publication Language:

English

(30)	Priority Data:	26 0 C+ 04	
` '	60/375,665	26 April 2002 (26.04.2002)	US
	60/375,834	26 April 2002 (26.04.2002)	US
	60/375,779	26 April 2002 (26.04.2002)	US
	60/375,622	26 April 2002 (26.04.2002)	US

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier applications:

() F. F.	
US	60/375,665 (CON)
Filed on	26 April 2002 (26.04.2002)
US	60/375,834 (CON)
Filed on	26 April 2002 (26.04.2002)
US	60/375,779 (CON)
Filed on	26 April 2002 (26.04.2002)
US	60/375,622 (CON)
Filed on	26 April 2002 (26.04.2002)

(71) Applicant (for all designated States except US): GILEAD SCIENCES, INC. [US/US]; 333 Lakeside Drive, Foster City, CA 94404 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BIRKUS, Gabriel [SK/US]; 1266 Stanyan Street #4, San Francisco, CA 94117 (US). CHEN, James, M. [US/US]; 4015 Marblehead Drive, San Ramon, CA 94583 (US). CHEN, Xiaowu [US/US]; 377 Laurie Meadows Drive, Apt. 319, San Mateo, CA 94403 (US). LTHLAR, Tomas [CZ/US]; 727 Caravel Lane, Foster City, CA 94404 (US).

EISENBERG, Eugene, J. [US/US]; 236 Club Drive, San Carlos, CA 94070 (US). HATADA, Marcos [US/US]; 2000 Walnut Avenue, Apt. G302, Fremont, CA 94538 (US). HE, Gong-Xin [CN/US]; 5436 Ontario Common, Fremont, CA 94555 (US)-KIM, Choung, U. [US/US]; 1750 Elizabeth Street, San Carlos, CA 94070 (US). LEE, William, A. [US/US]; 749 Anderson Drive, Los Altos, CA 94024 (US)-MCDERMOTT, Martin, J. [US/US]; 710 Bair Island Road, Suite 202, Redwood City, CA 94063 (US). SWAMINATHAN, Sundaramoorthi [IN/US]; 2858 Hillside Drive, Burlingame, CA 94010 (US).

- (74) Agents: HENSLEY, Max, D. et al.; Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO. SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND COMPOSITIONS FOR IDENTIFYING ANTI-HIV THERAPEUTIC COMPOUNDS

(57) Abstract: Methods are provided for identifying anti-HIV therapeutic compounds substituted with carboxyl ester or phosphonate ester groups. Libraries of such compounds are screened optionally using the novel enzyme GS-7340 Ester Hydrolase. Compositions and methods relating to GS-7340 Ester Hydrolase also are provided.